Michelle Ploughman

List of Publications by Year
in descending order

73	2,846	236925 25	182427 51
papers	citations	h-index	g-index

78	78	78	3431
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Brain-Derived Neurotrophic Factor Contributes to Recovery of Skilled Reaching After Focal Ischemia in Rats. Stroke, 2009, 40, 1490-1495.	2.0	319
2	Efficacy and safety of non-immersive virtual reality exercising in stroke rehabilitation (EVREST): a randomised, multicentre, single-blind, controlled trial. Lancet Neurology, The, 2016, 15, 1019-1027.	10.2	279
3	Exercise is brain food: The effects of physical activity on cognitive function. Developmental Neurorehabilitation, 2008, 11, 236-240.	1.1	244
4	Endurance exercise regimens induce differential effects on brain-derived neurotrophic factor, synapsin-I and insulin-like growth factor I after focal ischemia. Neuroscience, 2005, 136, 991-1001.	2.3	155
5	Exercise intensity influences the temporal profile of growth factors involved in neuronal plasticity following focal ischemia. Brain Research, 2007, 1150, 207-216.	2.2	148
6	Aerobic exercise effects on neuroprotection and brain repair following stroke: A systematic review and perspective. Neuroscience Research, 2014, 87, 8-15.	1.9	119
7	The Effects of Poststroke Aerobic Exercise on Neuroplasticity: A Systematic Review of Animal and Clinical Studies. Translational Stroke Research, 2015, 6, 13-28.	4.2	110
8	Can forced-use therapy be clinically applied after stroke? an exploratory randomized controlled trial11No commercial party having a direct financial interest in the results of the research supporting this article has or will confer a benefit upon the author(s) or upon any organization with which the author(s) is/are associated.. Archives of Physical Medicine and Rehabilitation, 2004, 85, 1417-1423.	0.9	98
9	Endurance exercise facilitates relearning of forelimb motor skill after focal ischemia. European Journal of Neuroscience, 2007, 25, 3453-3460.	2.6	96
10	High-Intensity Interval Training After Stroke: An Opportunity to Promote Functional Recovery, Cardiovascular Health, and Neuroplasticity. Neurorehabilitation and Neural Repair, 2018, 32, 543-556.	2.9	89
11	Does Treadmill Exercise Improve Performance of Cognitive or Upper-Extremity Tasks in People With Chronic Stroke? A Randomized Cross-Over Trial. Archives of Physical Medicine and Rehabilitation, 2008, 89, 2041-2047.	0.9	82
12	Factors influencing healthy aging with multiple sclerosis: a qualitative study. Disability and Rehabilitation, 2012, 34, 26-33.	1.8	63
13	Four birds with one stone? Reparative, neuroplastic, cardiorespiratory, and metabolic benefits of aerobic exercise poststroke. Current Opinion in Neurology, 2016, 29, 684-692.	3.6	59
14	The Path to Self-Management: A Qualitative Study Involving Older People with Multiple Sclerosis. Physiotherapy Canada Physiotherapie Canada, 2012, 64, 6-17.	0.6	48
15	Excessive sedentary time during in-patient stroke rehabilitation. Topics in Stroke Rehabilitation, 2018, 25, 1-9.	1.9	46
16	Moving exercise research in multiple sclerosis forward (the MoXFo initiative): Developing consensus statements for research. Multiple Sclerosis Journal, 2020, 26, 1303-1308.	3.0	46
17	Synergistic Benefits of Combined Aerobic and Cognitive Training on Fluid Intelligence and the Role of IGF-1 in Chronic Stroke. Neurorehabilitation and Neural Repair, 2019, 33, 199-212.	2.9	45
18	Defining Optimal Aerobic Exercise Parameters to Affect Complex Motor and Cognitive Outcomes after Stroke: A Systematic Review and Synthesis. Neural Plasticity, 2016, 2016, 1-12.	2.2	42

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19	Applying cognitive debriefing to pre-test patient-reported outcomes in older people with multiple sclerosis. Quality of Life Research, 2010, 19, 483-487.	3.1	35
20	The Canadian survey of health, lifestyle and ageing with multiple sclerosis: methodology and initial results. BMJ Open, 2014, 4, e005718-e005718.	1.9	34
21	Over-the-counter anti-oxidant therapies for use in multiple sclerosis: A systematic review. Multiple Sclerosis Journal, 2015, 21, 1485-1495.	3.0	33
22	Asymmetry of Brain Excitability: A New Biomarker that Predicts Objective and Subjective Symptoms in Multiple Sclerosis. Behavioural Brain Research, 2019, 359, 281-291.	2.2	33
23	Transcranial Magnetic Stimulation as a Potential Biomarker in Multiple Sclerosis: A Systematic Review with Recommendations for Future Research. Neural Plasticity, 2019, 2019, 1-22.	2.2	31
24	Predictors of exercise participation in ambulatory and non-ambulatory older people with multiple sclerosis. PeerJ, 2015, 3, e1158.	2.0	29
25	Walking impairs cognitive performance among people with multiple sclerosis but not controls. Human Movement Science, 2016, 49, 124-131.	1.4	28
26	Breaking down the barriers to physical activity among people with multiple sclerosis â€“ a narrative review. Physical Therapy Reviews, 2017, 22, 124-132.	0.8	28
27	Prolonged cortical silent period is related to poor fitness and fatigue, but not tumor necrosis factor, in Multiple Sclerosis. Clinical Neurophysiology, 2019, 130, 474-483.	1.5	27
28	The impact of resilience on healthy aging with multiple sclerosis. Quality of Life Research, 2020, 29, 2769-2779.	3.1	26
29	Comparing Three Dual-Task Methods and the Relationship to Physical and Cognitive Impairment in People with Multiple Sclerosis and Controls. Multiple Sclerosis International, 2015, 2015, 1-7.	0.8	25
30	Association of chronic pain with comorbidities and health care utilization: a retrospective cohort study using health administrative data. Pain, 2021, 162, 2737-2749.	4.2	23
31	Serum levels of insulin-like growth factor-1 and brain-derived neurotrophic factor as potential recovery biomarkers in stroke. Neurological Research, 2019, 41, 354-363.	1.3	20
32	Intensifying Functional Task Practice to Meet Aerobic Training Guidelines in Stroke Survivors. Frontiers in Physiology, 2017, 8, 809.	2.8	18
33	The Effects of Aerobic Exercise on the Recovery of Walking Ability and Neuroplasticity in People with Multiple Sclerosis: A Systematic Review of Animal and Clinical Studies. Multiple Sclerosis International, 2017, 2017, 1-12.	0.8	18
34	Under-treated depression negatively impacts lifestyle behaviors, participation and health-related quality of life among older people with multiple sclerosis. Multiple Sclerosis and Related Disorders, 2020, 40, 101919.	2.0	18
35	A new era of multiple sclerosis rehabilitation: lessons from stroke. Lancet Neurology, The, 2017, 16, 768-769.	10.2	17
36	Effectiveness of a novel community exercise transition program for people with moderate to severe neurological disabilities. NeuroRehabilitation, 2014, 35, 105-112.	1.3	16

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37	Factors Associated with Poor Sleep in Older Adults with Multiple Sclerosis. International Journal of Behavioral Medicine, 2017, 24, 937-945.	1.7	16
38	Therapistsâ€™ cues influence lower limb muscle activation and kinematics during gait training in subacute stroke. Disability and Rehabilitation, 2018, 40, 3156-3163.	1.8	16
39	A Bout of High Intensity Interval Training Lengthened Nerve Conduction Latency to the Non-exercised Affected Limb in Chronic Stroke. Frontiers in Physiology, 2018, 9, 827.	2.8	16
40	Vigorous cool room treadmill training to improve walking ability in people with multiple sclerosis who use ambulatory assistive devices: a feasibility study. BMC Neurology, 2020, 20, 33.	1.8	16
41	Probing the Brainâ€“Body Connection Using Transcranial Magnetic Stimulation (TMS): Validating a Promising Tool to Provide Biomarkers of Neuroplasticity and Central Nervous System Function. Brain Sciences, 2021, 11, 384.	2.3	16
42	Healthy Aging from the Perspectives of 683 Older People with Multiple Sclerosis. Multiple Sclerosis International, 2016, 2016, 1-10.	0.8	15
43	Exercise-Induced Brain Excitability Changes in Progressive Multiple Sclerosis: A Pilot Study. Journal of Neurologic Physical Therapy, 2020, 44, 132-144.	1.4	15
44	Oxygen Cost During Mobility Tasks and Its Relationship to Fatigue in Progressive Multiple Sclerosis. Archives of Physical Medicine and Rehabilitation, 2019, 100, 2079-2088.	0.9	14
45	Prioritizing progressive MS rehabilitation research: A call from the International Progressive MS Alliance. Multiple Sclerosis Journal, 2021, 27, 989-1001.	3.0	13
46	Fitness Shifts the Balance of BDNF and IL-6 from Inflammation to Repair among People with Progressive Multiple Sclerosis. Biomolecules, 2021, 11, 504.	4.0	13
47	Women's and Men's Differing Experiences of Health, Lifestyle, and Aging with Multiple Sclerosis. International Journal of MS Care, 2017, 19, 165-171.	1.0	13
48	Walking Training Enhances Corticospinal Excitability in Progressive Multiple Sclerosisâ€”A Pilot Study. Frontiers in Neurology, 2020, 11, 422.	2.4	12
49	Spatiotemporal Gait Measurement With a Side-View Depth Sensor Using Human Joint Proposals. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 1758-1769.	6.3	12
50	Drawing on Related Knowledge to Advance Multiple Sclerosis Falls-Prevention Research. International Journal of MS Care, 2014, 16, 163-170.	1.0	12
51	Telegerontology as a Novel Approach to Address Health and Safety by Supporting Community-Based Rural Dementia Care Triads: Randomized Controlled Trial Protocol. JMIR Research Protocols, 2018, 7, e56.	1.0	9
52	Machine learning classification of multiple sclerosis patients based on raw data from an instrumented walkway. BioMedical Engineering OnLine, 2022, 21, 21.	2.7	9
53	Reliability of gait and dual-task measures in multiple sclerosis. Gait and Posture, 2020, 78, 19-25.	1.4	8
54	Sex-specific disruption in corticospinal excitability and hemispheric (a)symmetry in multiple sclerosis. Brain Research, 2021, 1773, 147687.	2.2	7

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55	Constraint-Induced Movement Therapy for Severe Upper-Extremity Impairment after Stroke in an Outpatient Rehabilitation Setting: A Case Report. Physiotherapy Canada Physiotherapie Canada, 2008, 60, 161-170.	0.6	6
56	Environmental temperature and exercise modality independently impact central and muscle fatigue among people with multiple sclerosis. Multiple Sclerosis Journal - Experimental, Translational and Clinical, 2017, 3, 205521731774762.	1.0	6
57	Identifying cases of chronic pain using health administrative data: A validation study. Canadian Journal of Pain, 2020, 4, 252-267.	1.7	6
58	Bipedal Hopping Reveals Evidence of Advanced Neuromuscular Aging Among People With Mild Multiple Sclerosis. Journal of Motor Behavior, 2017, 49, 505-513.	0.9	5
59	Canadian Platform for Trials in Noninvasive Brain Stimulation (CanStim) Consensus Recommendations for Repetitive Transcranial Magnetic Stimulation in Upper Extremity Motor Stroke Rehabilitation Trials. Neurorehabilitation and Neural Repair, 2021, 35, 103-116.	2.9	5
60	Community-Based Stroke Rehabilitation: Recovery continued?. Canadian Journal of Neurological Sciences, 2014, 41, 679-680.	0.5	4
61	Bipedal hopping timed to a metronome to detect impairments in anticipatory motor control in people with mild multiple sclerosis. Clinical Biomechanics, 2018, 55, 45-52.	1.2	4
62	Octogenarians with Multiple Sclerosis: Lessons for Aging in Place. Canadian Journal on Aging, 2020, 39, 107-116.	1.1	4
63	Factors Associated With Prolonged Length of Stay and Failed Lower Limb Prosthetic Fitting During Inpatient Rehabilitation. Archives of Rehabilitation Research and Clinical Translation, 2020, 2, 100084.	0.9	4
64	Research interrupted: The impact of the COVID-19 pandemic on multiple sclerosis research in the field of rehabilitation and quality of life. Multiple Sclerosis Journal - Experimental, Translational and Clinical, 2021, 7, 205521732110380.	1.0	4
65	Psychological resilience explains functional variability across people with multiple sclerosis â€“ No. Multiple Sclerosis Journal, 2021, 27, 504-506.	3.0	4
66	Remyelination trial failures: Repercussions of ignoring neurorehabilitation and exercise in repair. Multiple Sclerosis and Related Disorders, 2022, 58, 103539.	2.0	4
67	Bipedal hopping as a new measure to detect subtle sensorimotor impairment in people with multiple sclerosis. Disability and Rehabilitation, 2020, , 1-12.	1.8	3
68	Gaps in Medicare and the Social Safety Net Predict Financial Strain Among Older Canadians With Multiple Sclerosis. Journal of Disability Policy Studies, 2020, 31, 77-86.	1.5	2
69	Normobaric Hypoxia Exposure During Treadmill Aerobic Exercise After Stroke: A Safety and Feasibility Study. Frontiers in Physiology, 2021, 12, 702439.	2.8	2
70	Better cognitive function predicts maintenance of dual-task walking ability over time among people with relapsing-remitting MS.. Neuropsychology, 2022, 36, 520-527.	1.3	2
71	Restoring function in progressive multiple sclerosis. Lancet Neurology, The, 2019, 18, 711-712.	10.2	1
72	Task-Oriented Circuit Training as an Alternative to Ergometer-Type Aerobic Exercise Training after Stroke. Journal of Clinical Medicine, 2021, 10, 2423.	2.4	1

#	Article	IF	Citations
73	Use of Participatory Action Research in the Development of a Survey of Physiotherapy Services for People with Multiple Sclerosis in Canada. Physiotherapy Canada Physiotherapie Canada, 2020, 72, 366-373.	0.6	0